

E. Lazar Wesley

#5

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/414,643

DATE: 02/15/2001  
 TIME: 11:57:49

Input Set : A:\09414643.txt  
 Output Set: N:\CRF3\02152001\I414643.raw

7 <110> APPLICANT: PILETZ, John E.  
 8 IVANOV, Tina R.  
 10 <120> TITLE OF INVENTION: DNA MOLECULES ENCODING IMIDALINE RECEPTIVE POLYPEPTIDES  
 11 AND POLYPEPTIDES ENCODED THEREBY  
 14 <130> FILE REFERENCE: Corrected Sequence Listing  
 17 <140> CURRENT APPLICATION NUMBER: 09/414,643  
 18 <141> CURRENT FILING DATE: 1999-10-08  
 21 <150> PRIOR APPLICATION NUMBER: 08/922,635  
 22 <151> PRIOR FILING DATE: 1997-09-03  
 25 <150> PRIOR APPLICATION NUMBER: 60/012,600  
 26 <151> PRIOR FILING DATE: 1996-03-01  
 29 <160> NUMBER OF SEQ ID NOS: 22  
 31 <170> SOFTWARE: PatentIn Ver. 2.0  
 34 <210> SEQ ID NO: 1  
 35 <211> LENGTH: 3385  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Homo sapiens  
 W--> 38 <220> FEATURE:  
 39 <221> NAME/KEY: CDS  
 40 <222> LOCATION: (1398)..(3383)  
 43 <400> SEQUENCE: 1  
 46 gctctagaac tagtggatcc cccgggctgc aggaattcca gtttaatact aaccctaattg 60  
 48 tgtgactgcg gtttacaagg agctctgtat cacctgggat agctttcagt agcaattcac 120  
 50 tacaactggt cctaaaaaat aataacaata ataataataa ttagagaatt aaaacccaac 180  
 52 agcatgttga atggttaaaa tcacgtaaga actgaaattt ggggtggggg tgcctcaac 240  
 54 agctgagctt gtcctagcag tgaatatgct gcctccaag cagggtctag aaaggtctgg 300  
 56 agccctccag gcagagggct gagctcaggg ggctcttggg ggacactcac cccatggtcc 360  
 58 atgggatgct tctggcttcc ttaaaaaacag ttgggcatcc gcattgtata agtaggtgga 420  
 60 gaccctagtg tggttctttt gaaggatatg ggaaggagg atgacgaact agagaagtgg 480  
 62 gaggggacca aaatcactga ggtcccagaa tatcatagat ttgggtatag gattggggtc 540  
 64 actaagaatt gagcaccagg aattccagct tcttccatt aaagaaactg ggactggttt 600  
 66 tgccttgag gcctatgtag tgtttctgct ccctgtccca taccaagtct cattgatatt 660  
 68 tctgcagaat atcagatgaa aatctatttc taaagacat tgggagaatg ggtggtggag 720  
 70 aaggagtgg agtggggttg gggggcagtt aaaaatgaat aaaaatctct cagctacaga 780  
 72 acccaaacat cacttccctc cgcattcaca gcatttccca gcagtcccca gatggttgtt 840  
 74 tccgtgggga cacagcagct gcctcatttc ccttcaggcc ccatgggctg ctgggtcaacc 900  
 76 tcaggatcta cttaaagatga cgcaaatgcc gactgaacaa tctgaaaccc aaaggactcg 960  
 78 aggagagaca tgttctgctg aggagagaaa ggtgagccaa gggcagggcc cagggtcccc 1020  
 80 agggggcccc cgagagcccc gacatgcacc ttctggatgt gtttgttcaa gtaggactta 1080  
 82 gagcgaaga agctcccaca ttcagggcct gggtacttct tctccccatc agactccatt 1140  
 84 ttgtttttgg ggaactgcat gtcgcaggag aaagagccat tggcactctg cttctctggc 1200  
 86 gtcttcagggt cgttggcatc tgagaggcca ccataggagt cagagctctc aatcggatcc 1260  
 88 tgatgtgagc atttctggcc ttctcgggta cagatactgc agaagttgct gggccctctg 1320  
 90 ctgtgcttct tcaggtgggc tgccatgtat gctgcccga agtacttccc acacacctgg 1380  
 92 cagggcacct tgtcttc atg aca ggc cag gtg gga gcg cag acg gtc tgc 1430  
 93 Met Thr Gly Gln Val Gly Ala Gln Thr Val Ser  
 94 1 5 10

ENTERED

## RAW SEQUENCE LISTING

DATE: 02/15/2001

PATENT APPLICATION: US/09/414,643

TIME: 11:57:49

Input Set : A:\09414643.txt

Output Set: N:\CRF3\02152001\I414643.raw

```

96 ggt ggc aaa aga agc att gca ggt ctg aca ctt gtg agg ccg ctc aga 1478
97 Gly Gly Lys Arg Ser Ile Ala Gly Leu Thr Leu Val Arg Pro Leu Arg
98      15      20      25
100 agt gtg cac ctg ctt gat atg tcc gtt caa gtg atc agg cct gga gaa 1526
101 Ser Val His Leu Leu Asp Met Ser Val Gln Val Ile Arg Pro Gly Glu
102      30      35      40
104 gcc ttt ccc aca gct ctg gca gat gta agg cgg aat tcc cca gag aag 1574
105 Ala Phe Pro Thr Ala Leu Ala Asp Val Arg Arg Asn Ser Pro Glu Lys
106      45      50      55
108 aag ggt ggt gaa gac tcc cgg ctc tca gct gcc ccc tgc atc aga ccc 1622
109 Lys Gly Gly Glu Asp Ser Arg Leu Ser Ala Ala Pro Cys Ile Arg Pro
110      60      65      70      75
112 agc agc tcc cct ccc act gtg gct ccc gca tct gcc tcc ctg ccc cag 1670
113 Ser Ser Ser Pro Pro Thr Val Ala Pro Ala Ser Ala Ser Leu Pro Gln
114      80      85      90
116 ccc atc ctc tct aac caa gga atc atg ttc gtt cag gag gag gcc ctg 1718
117 Pro Ile Leu Ser Asn Gln Gly Ile Met Phe Val Gln Glu Glu Ala Leu
118      95      100      105
120 gcc agc agc ctc tgc tcc act gac agt ctg act ccc gag cac cag ccc 1766
121 Ala Ser Ser Leu Ser Ser Thr Asp Ser Leu Thr Pro Glu His Gln Pro
122      110      115      120
124 att gcc cag gga tgt tct gat tcc ttg gag tcc atc cct gcg gga cag 1814
125 Ile Ala Gln Gly Cys Ser Asp Ser Leu Glu Ser Ile Pro Ala Gly Gln
126      125      130      135
128 gca gct tcc gat gat tta agg gac gtg cca gga gct gtt ggt ggt gca 1862
129 Ala Ala Ser Asp Asp Leu Arg Asp Val Pro Gly Ala Val Gly Gly Ala
130      140      145      150      155
132 agc cca gaa cat gcc gag ccg gag gtc cag gtg gtg ccg ggg tct ggc 1910
133 Ser Pro Glu His Ala Glu Pro Glu Val Gln Val Val Pro Gly Ser Gly
134      160      165      170
136 cag atc atc ttc ctg ccc ttc acc tgc att ggc tac acg gcc acc aat 1958
137 Gln Ile Ile Phe Leu Pro Phe Thr Cys Ile Gly Tyr Thr Ala Thr Asn
138      175      180      185
140 cag gac ttc atc cag cgc ctg agc aca ctg atc cgg cag gcc atc gag 2006
141 Gln Asp Phe Ile Gln Arg Leu Ser Thr Leu Ile Arg Gln Ala Ile Glu
142      190      195      200
144 cgg cag ctg cct gcc tgg atc gag gct gcc aac cag cgg gag gag ggc 2054
145 Arg Gln Leu Pro Ala Trp Ile Glu Ala Ala Asn Gln Arg Glu Glu Gly
146      205      210      215
148 cag ggt gaa cag ggc gag gag gag gat gag gag gag gaa gaa gag gag 2102
149 Gln Gly Glu Gln Gly Glu Glu Asp Glu Glu Glu Glu Glu Glu Glu
150      220      225      230      235
152 gac gtg gct gag aac cgc tac ttt gaa atg ggg ccc cca gac gtg gag 2150
153 Asp Val Ala Glu Asn Arg Tyr Phe Glu Met Gly Pro Pro Asp Val Glu
154      240      245      250
156 gag gag gag gga gga ggc cag ggg gag gaa gag gag gag gaa gag gag 2198
157 Glu Glu Glu Gly Gly Gln Gly Glu Glu Glu Glu Glu Glu Glu Glu
158      255      260      265
160 gat gaa gag gcc gag gag gag cgc ctg gct ctg gaa tgg gcc ctg ggc 2246

```

## RAW SEQUENCE LISTING

DATE: 02/15/2001

PATENT APPLICATION: US/09/414,643

TIME: 11:57:49

Input Set : A:\09414643.txt

Output Set: N:\CRF3\02152001\I414643.raw

```

161 Asp Glu Glu Ala Glu Glu Glu Arg Leu Ala Leu Glu Trp Ala Leu Gly
162      270      275      280
164 gcg gac gag gac ttc ctg ctg gag cac atc cgc atc ctc aag gtg ctg 2294
165 Ala Asp Glu Asp Phe Leu Leu Glu His Ile Arg Ile Leu Lys Val Leu
166      285      290      295
168 tgg tgc ttc ctg atc cat gtg cag ggc agt atc cgc cag ttc gcc gcc 2342
169 Trp Cys Phe Leu Ile His Val Gln Gly Ser Ile Arg Gln Phe Ala Ala
170 300      305      310      315
172 tgc ctt gtg ctc acc gac ttc ggc atc gca gtc ttc gag atc ccg cac 2390
173 Cys Leu Val Leu Thr Asp Phe Gly Ile Ala Val Phe Glu Ile Pro His
174      320      325      330
176 cag gag tct cgg ggc agc agc cag cac atc ctc tcc tcc ctg cgc ttt 2438
177 Gln Glu Ser Arg Gly Ser Ser Gln His Ile Leu Ser Ser Leu Arg Phe
178      335      340      345
182 gtc ttt tgc ttc ccg cat ggc gac ctc acc gag ttt ggc ttc ctc atg 2486
183 Val Phe Cys Phe Pro His Gly Asp Leu Thr Glu Phe Gly Phe Leu Met
184      350      355      360
186 ccg gag ctg tgt ctg gtg ctc aag gta cgg cac agt gag aac acg ctc 2534
187 Pro Glu Leu Cys Leu Val Leu Lys Val Arg His Ser Glu Asn Thr Leu
188      365      370      375
190 ttc att atc tcg gac gcc gcc aac ctg cac gag ttc cac gcg gac ctg 2582
191 Phe Ile Ile Ser Asp Ala Ala Asn Leu His Glu Phe His Ala Asp Leu
192 380      385      390      395
194 cgc tca tgc ttt gca ccc cag cac atg gcc atg ctg tgt agc ccc atc 2630
195 Arg Ser Cys Phe Ala Pro Gln His Met Ala Met Leu Cys Ser Pro Ile
196      400      405      410
198 ctc tac ggc agc cac acc agc ctg cag gag ttc ctg cgc cag ctg ctc 2678
199 Leu Tyr Gly Ser His Thr Ser Leu Gln Phe Leu Arg Gln Leu Leu
200      415      420      425
202 acc ttc tac aag gtg gct ggc ggc tgc cag gag cgc agc cag gcc tgc 2726
203 Thr Phe Tyr Lys Val Ala Gly Gly Cys Gln Glu Arg Ser Gln Gly Cys
204      430      435      440
206 ttc ccc gtc tac ctg gtc tac agt gac aag cgc atg gtg cag acg gcc 2774
207 Phe Pro Val Tyr Leu Val Tyr Ser Asp Lys Arg Met Val Gln Thr Ala
208      445      450      455
210 gcc ggg gac tac tca ggc aac atc gag tgg gcc agc tgc aca ctc tgt 2822
211 Ala Gly Asp Tyr Ser Gly Asn Ile Glu Trp Ala Ser Cys Thr Leu Cys
212 460      465      470      475
214 tca gcc gtg cgg cgc tcc tgc tgc gcg ccc tct gag gcc gtc aag tcc 2870
215 Ser Ala Val Arg Arg Ser Cys Cys Ala Pro Ser Glu Ala Val Lys Ser
216      480      485      490
218 gcc gcc atc ccc tac tgg ctg ttg ctc acg ccc cag cac ctc aac gtc 2918
219 Ala Ala Ile Pro Tyr Trp Leu Leu Leu Thr Pro Gln His Leu Asn Val
220      495      500      505
222 atc aag gcc gac ttc aac ccc atg ccc aac cgt ggc acc cac aac tgt 2966
223 Ile Lys Ala Asp Phe Asn Pro Met Pro Asn Arg Gly Thr His Asn Cys
224      510      515      520
226 cgc aac cgc aac agc ttc aag ctc agc cgt gtg ccg ctc tcc acc gtg 3014
227 Arg Asn Arg Asn Ser Phe Lys Leu Ser Arg Val Pro Leu Ser Thr Val

```

## RAW SEQUENCE LISTING

DATE: 02/15/2001

PATENT APPLICATION: US/09/414,643

TIME: 11:57:49

Input Set : A:\09414643.txt

Output Set: N:\CRF3\02152001\I414643.raw

```

228      525      530      535
230 ctg ctg gac ccc aca cgc agc tgt acc cag cct cgg ggc gcc ttt gct 3062
231 Leu Leu Asp Pro Thr Arg Ser Cys Thr Gln Pro Arg Gly Ala Phe Ala
232 540      545      550      555
234 gat ggc cac gtg cta gag ctg ctc gtg ggg tac cgc ttt gtc act gcc 3110
235 Asp Gly His Val Leu Glu Leu Leu Val Gly Tyr Arg Phe Val Thr Ala
236      560      565      570
238 atc ttc gtg ctg ccc cac gag aag ttc cac ttc ctg cgc gtc tac aac 3158
239 Ile Phe Val Leu Pro His Glu Lys Phe His Phe Leu Arg Val Tyr Asn
240      575      580      585
244 cag ctg cgg gcc tcg ctg cag gac ctg aag act gtg gtc atc gcc aag 3206
245 Gln Leu Arg Ala Ser Leu Gln Asp Leu Lys Thr Val Val Ile Ala Lys
246      590      595      600
248 acc ccc ggg acg gga ggc agc ccc cag ggc tcc ttt gcg gat ggc cag 3254
249 Thr Pro Gly Thr Gly Gly Ser Pro Gln Gly Ser Phe Ala Asp Gly Gln
250      605      610      615
252 cct gcc gag cgc agg gcc agc aat gac cag cgt ccc cag gag gtc cca 3302
253 Pro Ala Glu Arg Arg Ala Ser Asn Asp Gln Arg Pro Gln Glu Val Pro
254 620      625      630      635
256 gca gag gct ctg gcc ccg gcc cca gtg gaa gtc cca gct cca gcc ccg 3350
257 Ala Glu Ala Leu Ala Pro Ala Pro Val Glu Val Pro Ala Pro Ala Pro
258      640      645      650
260 gaa ttc gat atc aag ctt atc gat acc gtc gac ct 3385
261 Glu Phe Asp Ile Lys Leu Ile Asp Thr Val Asp
262      655      660
267 <210> SEQ ID NO: 2
268 <211> LENGTH: 1954
269 <212> TYPE: DNA
270 <213> ORGANISM: Homo sapiens
273 <400> SEQUENCE: 2
275 atgacaggcc aggtgggagc gcagacggtc tcgggtggca aaagaagcat tgcaggtctg 60
277 acacttgatg ggccgctcag aagtgtgcac ctgcttgata tgtccgttca agtgatcagg 120
279 cctggagaag cctttcccac agctctggca gatgtaaggc ggaattcccc agagaagaag 180
281 ggtggtgaag actcccggtc ctccagtgcc cctgcaccca gaccacagcag ctccccctccc 240
283 actgtggctc ccgcatctgc ctccctgccc cagcccatcc tctctaacca aggaatcatg 300
285 ttcgttcagg aggaggccct ggccagcagc ctctcgtcca ctgacagtct gactcccgag 360
287 caccagccca ttgcccaggg atgtttctgat tccttgaggc ccatccctgc gggacaggca 420
289 gcttccgatg atttaaggga cgtgccagga gctgttggtg gtgcaagccc agaacatgcc 480
291 gagccggagg tccaggtggt gccggggtct ggccagatca tcttctgccc ctccacctgc 540
293 attggctaca cggccaccaaa tcaggacttc atccagcgcc tgagcacact gatccggcag 600
295 gccatcgagc ggcagctgcc tgcctggatc gaggtgcca accagcggga ggaggggcag 660
297 ggtgaacagg gcgaggagga ggatgaggag gaggaagaag aggaggacgt ggctgagaac 720
299 cgtacttttg aaatggggcc ccagacgtg gaggaggagg agggaggagg ccagggggag 780
301 gaagaggagg aggaagagga ggaatgaagag gccgaggagg agcgctggc tctggaatgg 840
303 gccctggcgc cggacagagga cttcctgctg gagcacatcc gcaccccaa ggtgctgtgg 900
306 tgccttctga tccatgtgca gggcagatc cgcagttcg ccgcctgcct tgtgctcacc 960
308 gacttcggca tcgcagtctt cgagatcccg caccaggagt ctcggggcag cagccagcac 1020
310 atcctctcct ccctgcgctt tgtcttttgc ttcccgcatg gcgacctcac cgagtttggc 1080
312 ttcctcatgc cggagctgtg tctggtgctc aaggtagcgc acagtgagaa cacgctcttc 1140

```

## RAW SEQUENCE LISTING

DATE: 02/15/2001

PATENT APPLICATION: US/09/414,643

TIME: 11:57:49

Input Set : A:\09414643.txt

Output Set: N:\CRF3\02152001\I414643.raw

```

314 attatctcgg acgcccgcac cctgcacgag ttccacgcgg acctgcgctc atgcttttga 1200
316 cccagcacaca tggccatgct gtgtagcccc atcctctacg gcagccacac cagcctgcag 1260
318 gagttcctgc gccagctgct cacctcttac aagggtggtg gcggctgcca ggagcgcagc 1320
320 cagggctgct tccccgtcta cctggtctac agtgacaagc gcatggtgca gacggccgcc 1380
322 ggggactact caggcaacat cgagtgggcc agctgcacac tctgttcagc cgtgcggcgc 1440
324 tctgtctgcg cgccctctga ggccgtcaag tccgccgcca tcccctactg gctgttgctc 1500
326 acgccccagc acctcaacgt catcaaggcc gacttcaacc ccattgcccc ccgtggcacc 1560
328 cacaactgtc gcaaccgcaa gcacttcaag ctacagccgtg tgccgctctc caccgtgctg 1620
330 ctggacccca cagcagctg taccagcct cgggggcct ttgctgatgg ccacgtgcta 1680
332 gagctgctcg tggggtaccg ctttgtcact gccatcttcg tctgccccca cgagaagttc 1740
334 cacttctcgc gcgtctacaa ccagctgcgg gcctcgtgc aggacctgaa gactgtggtc 1800
336 atcgccaaga cccccgggac gggaggcagc ccccagggt cttttgcgga tggccagcct 1860
338 gccagcgcga gggccagcaa tgaccagct ccccaggagg tcccagcaga ggctctggcc 1920
340 ccggccccag tgggaagtc ccagctccagcc ccgg 1954
344 <210> SEQ ID NO: 3
345 <211> LENGTH: 3318
346 <212> TYPE: DNA
347 <213> ORGANISM: Homo sapiens
350 <400> SEQUENCE: 3
352 aattccagtt taatactaac cctaattgtg gactgcggtt tacaaagagc tctgtatcac 60
354 ctgggatagc ttctcagtag aattcactac aactggctct aaaaaataat aacaataata 120
356 ataataatta gagaattaaa acccaacagc atgttgaaat gttaaaatca cgtaagaact 180
358 gaaatttggg gtgggggtgt cctcaacagc tgagcttgct ctagcagtga aaatgctcgc 240
360 ctccaagcag ggctcagaaa ggtctggagc cctccaggca gagggctgag ctgagggggc 300
362 tcttgaggga cactcaccac atggtccatg ggatgcttct ggcttcctta aaaacagttg 360
364 ggcattccgc ttgtataagt aggtggagac cctagtgtgg ttcttttgaa ggatatggga 420
366 agggaggatg acgaactaga gaagtgggag gggacaaaaa tctactgagg cccagaatat 480
369 catagatttg ggtataggat tggggtcact aagaattgag caccaggaat tccagcttct 540
371 tcccattaaa gaaactggga ctggttttgc cttggaggcc tatgtagtgt tttctgcccc 600
373 tgtcccatat caagtctcat tgatatttct gcagaatata agatgaaaaa ctattttctaa 660
375 agaccatttg gagaatgggt ggtggagaag gagttggagt ggggttgggg ggcagttaaa 720
377 aatgaataaa aatctctcag ctacagaacc caaacatcac ttccctccgc attcacagca 780
379 tttcccagca gtccccagat ggttgtttcc gtggggacac agcagctgcc tcatttccct 840
381 tcaggcccca tgggtgctg gtcaacctca ggatctacta aagatgacgc aaatgccgac 900
383 tgaacaatct gaaacccaaa ggactcgagg agagacatgt tctgctgagg agagaaaggt 960
385 gagccaaggg cagggcccag gtccccaggg gggccccgga gagcccgga atgcaccttc 1020
387 tggatgtgtt tgttcaagta ggacttagag cggaagaagc tcccacattc agggcatggg 1080
389 tacttcttct ccccatcaga ctccattttg ttttgggga ctgccatgtc gcaggagaaa 1140
391 gagccatttg cactctgctt ctctggcgct ttcaggctgc tggcatctga gaggtcacca 1200
393 taggagtcag agctctcaat cggatcctga tgtgagcatt tctggccttc tcggttacag 1260
395 atactgcaga agttgctggg ccctcgtctg tgccttctca ggtggtctgc catgtatgct 1320
397 gcccgcaagt acttcccaca cacctggcag ggcacctgtt cttcatgaca ggccagggtg 1380
399 gagcgcagac ggtctcgggt ggcaaaagaa gcattgcagg tctgacactt gtgaggccgc 1440
401 tcagaagtgt gcacctgctt gatatgtccg ttcaagtgat caggcctgga gaagcctttc 1500
403 ccacagctct ggcagatgta aggcggaatt ccccagagaa gaagggtggg gaagactccc 1560
405 ggctctcagc tgccccctgc atcagaccca gcagctcccc tcccactgtg gctcccgcac 1620
407 ctgcctccct gcccagccc atcctctcta accaaggaat catgttcgtt caggaggagg 1680
409 ccctggccag cagcctctcg tccactgaca gtctgactcc cgagcaccag cccattgccc 1740
411 agggatgttc tgattccttg gagtccatcc ctgcgggaca ggcagcttcc gatgatttaa 1800

```

## VERIFICATION SUMMARY

DATE: 02/15/2001

PATENT APPLICATION: US/09/414,643

TIME: 11:57:50

Input Set : A:\09414643.txt

Output Set: N:\CRF3\02152001\I414643.raw

L:38 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1428 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21  
L:1428 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:1428 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:1428 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:21  
L:1428 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:21  
L:1430 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21  
L:1430 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:1430 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:1430 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:21  
M:340 Repeated in SeqNo=21  
L:1433 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21  
L:1433 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:1433 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:1433 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:21  
L:1435 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21  
L:1435 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:1435 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:1435 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:21  
L:1437 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21  
L:1437 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:1437 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:1437 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:21